```
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* * * * * * * * * *   Welcome to STN International   * * * * * * * * *
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 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  SEP 01  New pricing for the Save Answers for SciFinder
Wizard within
                  STN Express with Discover!
 NEWS  4  OCT 28  KOREAPAT now available on STN
 NEWS  5  NOV 30  PHAR reloaded with additional data
 NEWS  6  DEC 01  LISA now available on STN
 NEWS  7  DEC 09  12 databases to be removed from STN on December 31,
2004
 NEWS  8  DEC 15  MEDLINE update schedule for December 2004
 NEWS  9  DEC 17  ELCOM reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  10 DEC 17  COMPUAB reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  11 DEC 17  SOLIDSTATE reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  12 DEC 17  CERAB reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS  14 DEC 30  EPFULL: New patent full text database to be
available on STN
 NEWS  15 DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
 NEWS  16 JAN 03  No connect-hour charges in EPFULL during January
and
                  February 2005
 NEWS  17 JAN 11  CA/CAPLUS - Expanded patent coverage to include
Russia
                  (Federal Institute of Industrial Property)

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to
STN
 NEWS WWW      CAS World Wide Web Site (general information)

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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * *
* *

FILE 'HOME' ENTERED AT 19:51:50 ON 18 JAN 2005

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE
TOTAL
                                                       ENTRY
SESSION
FULL ESTIMATED COST                                     0.21
0.21

FILE 'REGISTRY' ENTERED AT 19:51:55 ON 18 JAN 2005
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STRUCTURE FILE UPDATES:   17 JAN 2005  HIGHEST RN 815574-28-8
DICTIONARY FILE UPDATES:  17 JAN 2005  HIGHEST RN 815574-28-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for
details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> s (gagags){2}/sqsp
L1          169 (GAGAGS){2}/SQSP

=> s (gvgvp){3}/sqsp
L2          248 (GVGVP){3}/SQSP

=> s l1&l2
L3           53 ((GAGAGS){2})((GVGVP){3})/SQSP

=> s gkgvp/sqsp
L4          830 GKGVP/SQSP

=> s l3&l4
L5            5 (((GAGAGS){2})((GVGVP){3}))(GKGVP)/SQSP

=> s (gvgp){4}/sqsp
L6            4 (GVGP){4}/SQSP

=> l5 & l6
L7            4 ((((GAGAGS){2})((GVGVP){3}))(GKGVP))((GVGP){4})/SQSP

=> l7 & l1
L8            4
(((((GAGAGS){2})((GVGVP){3}))(GKGVP))((GVGP){4}))((GAGAGS){2})/S
              QSP

=> d l8 1-4 kwic ed

L8   ANSWER 1 OF 4  REGISTRY  COPYRIGHT 2005 ACS on STN

SEQ      1 GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA
           ========== ========== ========== ========== ==========
         51 GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP
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           ========== ========== ========== ========== ==========
        651 GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP
           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
        751 VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS
           ========== ========== ==========
HITS AT:    1-780

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
ED   Entered STN:  15 Dec 2004

L8   ANSWER 2 OF 4  REGISTRY  COPYRIGHT 2005 ACS on STN

SEQ      1 GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
        201 VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA
           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
        401 GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG
           ========== ========== ========== ========== ==========
        451 VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG
           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
        601 GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA
           ========== ========== ========== ========== ==========
        651 GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP
           ========== ========== ========== ========== ==========
        701 GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG
           ========== ========== ========== ========== ==========
        751 VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS
           ========== ========== ==========
HITS AT:    1-780

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
ED   Entered STN:  08 Dec 2004

L8   ANSWER 3 OF 4  REGISTRY  COPYRIGHT 2005 ACS on STN

SEQ      1 GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA
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           ========== ========== ========== ========== ==========
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        201 VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA
           ========== ========== ========== ========== ==========
```

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       251 GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS
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           ========== ========== ========== ========== ==========
       351 GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP
           ========== ========== ========== ========== ==========
       401 GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
       651 GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP
           ========== ========== ========== ========== ==========
       701 GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG
           ========== ========== ========== ========== ==========
       751 VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS
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HITS AT:   1-780

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SEQ      1 GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
       151 VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG
           ========== ========== ========== ========== ==========
       201 VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA
           ========== ========== ========== ========== ==========
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       301 GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA
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       351 GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG VPGVGPGVGP
           ========== ========== ========== ========== ==========
       401 GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG
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       451 VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG
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       501 VPGVGVPGKG VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
       701 GVGPGVGPGA GAGSGAGAGS GAGAGSGAGA GSGVGVPGVG VPGVGVPGKG
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       751 VPGVGPGVGP GVGPGVGPGA GAGSGAGAGS
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HITS AT:   1-780

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ED    Entered STN:  22 Dec 2003


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COST IN U.S. DOLLARS                            SINCE FILE
TOTAL
                                                  ENTRY
SESSION
FULL ESTIMATED COST                              246.75
246.96

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FILE COVERS 1907 - 18 Jan 2005  VOL 142 ISS 4
FILE LAST UPDATED: 17 Jan 2005  (20050117/ED)

 This file contains CAS Registry Numbers for easy and accurate
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=> s l8
L9            4 L8

=> d l9 1-4 cbib

L9    ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2005 ACS on STN
2004:1019529   Document No. 142:2503  Conjugates of repeat sequence
protein
     polymers with bioactive agents.  Collier, Katherine D.; Cuevas,
William
     A.; Kumar, Manoj (USA).  U.S. Pat. Appl. Publ. US 2004234609 A1
20041125,
     54 pp.  (English).  CODEN: USXXCO.  APPLICATION: US 2004-845936
20040514.
     PRIORITY: US 2003-PV470464 20030514.

L9    ANSWER 2 OF 4  HCAPLUS  COPYRIGHT 2005 ACS on STN
2004:999537   Document No. 141:427734  Controlled release of active
agents from
     personal care product compositions utilizing repeat sequence
protein
     polymers.  Kumar, Manoj; Mazeaud, Isabelle; Christiano, Steven
Patrick
     (USA).  U.S. Pat. Appl. Publ. US 2004228913 A1 20041118, 34 pp.
     (English).  CODEN: USXXCO.  APPLICATION: US 2004-845775
20040514.
     PRIORITY: US 2003-PV470465 20030514.

L9    ANSWER 3 OF 4  HCAPLUS  COPYRIGHT 2005 ACS on STN
2004:759607   Document No. 141:282398  Use of repeat sequence protein
polymers
     in personal care compositions.  Kumar, Manoj; Cuevas, William A.
(USA).
     U.S. Pat. Appl. Publ. US 2004180027 A1 20040916, 50 pp.
(English).
     CODEN: USXXCO.  APPLICATION: US 2004-800179 20040312.  PRIORITY:
US
     2003-PV454077 20030312.

L9    ANSWER 4 OF 4  HCAPLUS  COPYRIGHT 2005 ACS on STN
2003:950911   Document No. 140:14537  Synthesis of inorganic
structures using
     templation and catalysis by self assembled repeat protein
polymers.
     Kumar, Manoj (Dow Corning Corporation, USA; Genencor
International, Inc.).
     PCT Int. Appl. WO 2003099465 A1 20031204, 27 pp.  DESIGNATED
STATES: W:
     AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR,
     CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID,
     IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
MA, MD,
     MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG,
     SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW;
     RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR,
GA, GB,
     GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR.
(English).
     CODEN: PIXXD2.  APPLICATION: WO 2003-US15757 20030520.
PRIORITY: US
     2002-PV381913 20020520.


=> index medicine biosci promp
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
'PROMP' IS NOT A VALID FILE NAME
ENTER A FILE NAME OR (IGNORE):prompt

'PROMPT' IS NOT A VALID FILE NAME
ENTER A FILE NAME OR (IGNORE):promt
COST IN U.S. DOLLARS                            SINCE FILE
TOTAL
                                                  ENTRY
SESSION
FULL ESTIMATED COST                               9.30
256.26

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT,
CAPLUS,
      CEN, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU,
EMBAL, EMBASE,
      ESBIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS,
KOSMET,
      LIFESCI, MEDICONF, MEDLINE, NAPRALERT, ...' ENTERED AT
19:55:54 ON 18 JAN 2005

78 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s selp47k
FILE 'ADISCTI'
            0 SELP47K
FILE 'ADISINSIGHT'
            0 SELP47K
FILE 'ADISNEWS'
            0 SELP47K
FILE 'BIOSIS'
            0 SELP47K
FILE 'BIOTECHNO'
            0 SELP47K
FILE 'CANCERLIT'
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FILE 'CAPLUS'
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FILE 'CEN'
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FILE 'DDFB'
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FILE 'DGENE'
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FILE 'EMBAL'
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FILE 'EMBASE'
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FILE 'CEABA-VTB'
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FILE 'CIN'
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FILE 'PHAR'
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FILE 'PROMT'
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FILE 'PROUSDDR'
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FILE 'PS'
            0 SELP47K
FILE 'RDISCLOSURE'
            0 SELP47K
FILE 'SYNTHLINE'
            0 SELP47K
FILE 'VETB'
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FILE 'VETU'
            0 SELP47K
FILE 'WATER'
            0 SELP47K
FILE 'WPIDS'
            2 SELP47K
FILE 'WPIFV'
            0 SELP47K
FILE 'WPINDEX'
            2 SELP47K

L10  QUE SELP47K

=> d rank
DISPLAY L# IS NOT VALID IN STNINDEX
Answer set was created in a file.  Enter DISPLAY HISTORY to see where
the answer set was created.  Use the File command to change to that
file, then display the answer.

=> d rank
F1          4   CAPLUS
F2          4   USPATFULL
F3          2   IFIPAT
F4          2   WPIDS
F5          2   WPINDEX
F6          1   DGENE
F7          1   KOSMET
F8          1   TOXCENTER


=> file f1-f8
COST IN U.S. DOLLARS                        SINCE FILE
TOTAL                                          ENTRY

SESSION
FULL ESTIMATED COST                            1.18
257.44

FILE 'CAPLUS' ENTERED AT 19:56:59 ON 18 JAN 2005
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

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Cosmetics Chemists

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L11          15 L10

=> dup rem
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L12           7 DUP REM L11 (8 DUPLICATES REMOVED)

=> d l12 1-7 cbib kwic

L12  ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN  DUPLICATE 1
2004:1019529   Document No. 142:2503  Conjugates of repeat sequence
protein
     polymers with bioactive agents.  Collier, Katherine D.; Cuevas,
William
     A.; Kumar, Manoj (USA).  U.S. Pat. Appl. Publ. US 2004234609 A1
20041125,
     54 pp.  (English).  CODEN: USXXCO.  APPLICATION: US 2004-845936
20040514.
     PRIORITY: US 2003-PV470464 20030514.
IT   50-81-7DP, Ascorbic acid, conjugates with silk fibroin-elastin
     SELP47K   1866-31-5DP, Allyl cinnamate, conjugates with silk
     fibroin-elastin SELP47K   2897-60-1DP, (3-
     Glycidoxypropyl)diethoxymethylsilane, conjugates with silk
fibroin-elastin
     SELP47K   3327-22-8DP, Quat 188, conjugates with silk
     fibroin-elastin SELP47K   7400-08-0DP, p-Hydroxycinnamic acid,
     conjugates with silk fibroin-elastin SELP47K   18171-19-2DP,
     3-Chloropropylmethyldimethoxysilane, conjugates with silk
fibroin-elastin
     SELP47K   27072-45-3DP, FITC, conjugates with silk fibroin-
elastin
     SELP47K   27668-52-6DP, DC5700, conjugates with silk
     fibroin-elastin SELP47K   31900-57-9DP, Polydimethylsiloxane,
     monocarboxydecyl-terminated, conjugates with silk fibroin-
elastin
     SELP47K   184870-14-2DP, (3-
Glycidoxypropyl)dimethylethoxysilane,
     conjugates with silk fibroin-elastin SELP47K
     RL: COS (Cosmetic use); NUU (Other use, unclassified); SPN
(Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study);
PREP
     (Preparation); USES (Uses)
        (conjugates of repeat sequence protein polymers with
bioactive agents)

L12  ANSWER 2 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN  DUPLICATE 2
2004:999537   Document No. 141:427734  Controlled release of active
```

agents from
personal care product compositions utilizing repeat sequence protein
polymers. Kumar, Manoj; Mazeaud, Isabelle; Christiano, Steven Patrick
(USA). U.S. Pat. Appl. Publ. US 2004228913 A1 20041118, 34 pp.
(English). CODEN: USXXCO. APPLICATION: US 2004-845775 20040514.
PRIORITY: US 2003-PV470465 20030514.
AB . . . hair care compn., a skin care compn., a nail care compn., a cosmetic composition, or an over-the-counter pharmaceutical composition Thus, SELP47K, a silk-elastin repeat sequence protein block copolymer, was expressed in transgenic Escherichia coli. The glass transition temperature and tensile strength of SELP47K were determined SELP47K could be spun into a film composed of a non-woven web of nanofilaments 20-45 nm in diameter and 100 nm. . .
ST . . . controlled release repeat sequence protein polymer; silk elastin
repeat block copolymer protein personal care product; cosmetic repeat
sequence protein polymer SELP47K
IT Proteins
RL: BPN (Biosynthetic preparation); COS (Cosmetic use); PRP (Properties);
THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(SELP47K (silk-elastin like protein 47K); controlled release of active agents from personal care product compns. utilizing repeat
sequence protein polymers)

L12 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
2004:759607 Document No. 141:282398 Use of repeat sequence protein polymers
in personal care compositions. Kumar, Manoj; Cuevas, William A. (USA).
U.S. Pat. Appl. Publ. US 2004180027 A1 20040916, 50 pp. (English).
CODEN: USXXCO. APPLICATION: US 2004-800179 20040312. PRIORITY: US
2003-PV454077 20030312.
AB . . . hair care compn., a skin care compn., a nail care compn., a cosmetic composition, or an over-the-counter pharmaceutical composition Thus, SELP47K, a silk-elastin repeat sequence protein block copolymer, was prepared with transgenic Escherichia coli. The glass transition temperature and tensile strength of SELP47K were determined SELP47K could be spun into a film composed of a non-woven web of nanofilaments 20-45 nm in diameter and 100 nm. . .
ST silk elastin repeat block copolymer protein personal care product;
cosmetic repeat sequence protein polymer SELP47K

L12 ANSWER 4 OF 7 USPATFULL on STN
2004:18884 Synthesis of inorganic structures using templation and
catalysis by
self assembled repeat protein polymers.
Kumar, Manoj, Fremont, CA, UNITED STATES
US 2004014186 A1 20040122
APPLICATION: US 2003-441965 A1 20030520 (10)
PRIORITY: US 2002-381913P 20020520 (60)
DOCUMENT TYPE: Utility; APPLICATION.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD [0078] A genetically engineered silk-elastin copolymer SELP47K (SEQ ID NO: 19) was isolated and purified from E. coli bacteria. The E.
coli containing the SELP47K (SEQ ID NO: 19) recombinant DNA was obtained from Protein Polymer Technologies, Inc. of San Diego,
Calif. The SELP47K (SEQ ID NO: 19) had a general structure of:

'head-[(GAGAGS).sub.2(GVGVP).sub.3GKGVP (SEQ ID NO: 19)
(GVGP).sub.4(GAGAGS).sub.2].sub.13-tail.
DETD [0080] Bovine albumin serum (BSA) was purchased from Sigma Aldrich, St.
Louis, Mo. A 13% solution of SELP47K (SEQ ID NO: 19) in water was prepared. A 13% solution of BSA in water was prepared. A stainless
steel coupon was spin coated with the SELP47K (SEQ ID NO: 19) solution to a thickness of 2 μm to form a SELP47K (SEQ ID NO: 19) protein film. A stainless steel coupon was spin coated with the
BSA solution to a thickness. . .
DETD . . . buffer, pH 8.0, to prepare the assay solution. The TEOS assay
solution was placed on the film of both the SELP47K (SEQ ID NO: 19) and BSA and in a corner of both steel coupons where no protein
film was present.
DETD [0082] It was observed that silica precipitation completed within one
minute on the SELP47K (SEQ ID NO: 19) film. No silica precipitation was observed on the BSA film. Additionally, no silica
precipitation was observed on the uncoated corners of the steel coupons.
The SELP47K (SEQ ID NO: 19) film was analyzed to confirm the silica precipitation by removing the white solid precipitated over the
SELP47K (SEQ ID NO: 19) film mechanically and dissolving the precipitated silica in NaOH and reacting the solution with molybdic
acid. . .
DETD [0083] A 10-20% solution of the SELP47K (SEQ ID NO: 19) obtained in Example 1 in water was prepared. A stainless steel coupon
was spin coated with the SELP47K (SEQ ID NO: 19) solution to a thickness of 2 μm to form a SELP47K (SEQ ID NO: 19) protein film. A yttrium ethoxide solution was placed on the film of the
SELP47K (SEQ ID NO: 19). Ytrrbia precipitation was observed

immediately on the protein polymer film whereas no such precipitation
was seen when dropped directly on the metal coupon having no SELP47K (SEQ ID NO: 19) protein polymer film.
DETD [0101] A CaCO.sub.3 inorganic structure may be formed using SELP47K (SEQ ID NO: 19). The SELP47K (SEQ ID NO: 19)
will be dissolved in 1 ml of 7.5 mM CaCl.sub.2 solution and this 1 ml
SELP47K (SEQ ID NO: 19) solution in CaCl.sub.2 will be placed into a well containing a cover-slip and the whole set. . .

L12 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
2004:61498 Document No. 141:301229 In vitro and in vivo evaluation of
recombinant silk-elastin like hydrogels for cancer gene therapy. Megeed,
Zaki; Haider, Mohamed; Li, Daqing; O'Malley, Bert W.; Cappello, Joseph;
Ghandehari, Hamidreza (Department of Pharmaceutical Sciences, University
of Maryland School of Pharmacy, Baltimore, MD, 21201, USA). Journal of
Controlled Release, 94(2-3), 433-445 (English) 2004. CODEN: JCREEC.
ISSN: 0168-3659. Publisher: Elsevier.
ST SELP47K hydrogel gene therapy antitumor

L12 ANSWER 6 OF 7 DGENE COPYRIGHT 2005 The Thomson Corp on STN
DESC Silk-elastin polymer SELP47K.
AB. . . temperature), and does not have any chemical modifications of the
protein. This is the amino acid sequence of silk-elastin polymer
SELP47K that may be used as the repeat sequence protein polymer
of the invention.

L12 ANSWER 7 OF 7 KOSMET COPYRIGHT 2005 IFSCC on STN
AB. . . DNA sequences. Additionally, by properly choosing and engineering
microbial production strains, we can achieve high expression of silk-elastin protein polymer (SELP47K), an example of RSPP
products from these genes. For example, we use microorganisms deficient
in the deletion mechanisms of homologous. . . and have molecular
weights generally between 30 kD and 250 kD. For example, in silk-elastin
protein polymer, a RSPP named SELP47K (Unit block structure: Figure 1), individual units are composed of silk fibroin (S = GAGAGS),
and elastin (E = GVGVP). In this nomenclature, SELP47K (silk elastin like protein) consists of four silk repeat peptides, seven
elastin repeat peptides, and one lysine modified elastin repeat peptide.
Cross-linking functionality is provided to the SELP47K by
substitution of one of the amino acids, valine, for a lysine in one
individual unit of elastin. This modification. . . applications in
personal care using molecular biology, gene-expression methods, and
modern fermentation engineering. Specifically, an example of silk-elastin
protein polymer SELP47K is reported for its ease in manufacturability and key structural and mechanical properties relevant
to personal care. Moreover, personal care. . .

=> d l12 1-7 ed
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=> d l12 7 ibib abs

L12 ANSWER 7 OF 7 KOSMET COPYRIGHT 2005 IFSCC on STN
ACCESSION NUMBER: 31795 KOSMET Full-text
FILE SEGMENT: scientific, technical
TITLE: BIOTECHNOLOGY FOR PERSONAL CARE: A CASE STUDY OF
SILK-ELASTIN PROTEIN POLYMER
AUTHOR: KUMAR M (GENENCOR INTERNATIONAL, INC., BIOCHEMISTRY
DEPARTMENT, 925 PAGE MILL ROAD, PALO ALTO, CA, USA)
SOURCE: 23 RD IFSCC INTERNATIONAL CONGRESS, "COSMETIC SCIENCE:
UNLOCKING THE ... MYSTERY, FANTASY, REALITY", 24-27
OCTOBER 2004, ORLANDO, FLORIDA, USA, DOLPHIN HOTEL,
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EMAIL: ifscc.scs@btinternet.com ; SOCIETY OF COSMETIC
CHEMISTS, 120 WALL STREET, SUITE 2400, NEW YORK, NY
10005, TEL: +1-212-668-1500, FAX: +1-212-668-1504,

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scc@scconline.org , INTERNET: www.scconline.org
DOCUMENT TYPE: Conference; (POSTER)
LANGUAGE: English
AN 31795 KOSMET FS scientific, technical Full-text
AB Designer Proteins are in need as active ingredients to perform a variety of functions and to impart desired characteristics to personal care product formulations. Advances in genetic engineering offer a unique opportunity to design specific, targeted properties, and production of consistent fermentation based protein polymers with desired properties that are important to provide specific benefits. Additionally, multiple protein motifs may be engineered to provide useful characteristics for a given personal care formulation. Thus, engineering of novel proteins with well-defined modular structures and properties for desired applications in personal care formulations is possible. Repeat sequence protein polymers (RSPP), produced though molecular biological design and fermentation targeted to incorporate the needed characteristics in personal care formulation are currently being investigated at Genencor International. We will present in this poster a case study of a repeat sequence protein for possible personal care applications using silk-elastin protein polymer as an example. Biotechnology based products for personal care applications are appearing on the market place. These products fall into three main categories, (i) peptides or small proteins, (ii) unique proteins and (iii) catalytic proteins: enzymes. This poster presentation will illustrate a new concept of hybrid proteins to deliver multifunctionality in personal care formulations using genetic and protein engineering techniques. Proteins have been widely used as ingredients in personal care products to perform a variety of functions and to impart desired characteristics to product formulations. For example, proteins have been used to impart manageability and strength to hair, to moisturize skin and hair, and to provide film formation to improve the appearance of skin and hair. Proteins have also been used to provide durability properties to many personal care products. However, such proteins may not exhibit all desired characteristics when used in personal care products. For example, natural silk proteins may impart durability but may also form tight, hard fibers that are not suitable for film formation. Also, many natural proteins have a low isoelectric point, which reduces the affinity of the protein for the negatively charged skin and hair. Additionally, when more than one protein is needed to impart all desired characteristics to a given formulation, the necessity of using more than one protein may increase the cost and production time for a given personal care product. Furthermore, proteins generally have poor solubility due to high molecular weight and hydrophobicity. Commercially available proteins, including structural proteins such as silk and collagen, are typically chemically degraded giving a diverse mixture of molecular weight fragments with variable properties. As such, these proteins are often modified chemically to enhance solubility for inclusion in personal care products. However, even chemically modified proteins may not have all desired characteristics. Thus, there remains a need in the industry for personal care compositions that have desired characteristics without chemical modification of the proteins. Natural protein polymers such as silk fibroins have been utilized to deliver personal care attributes for some time. Protein-based biopolymers1, 2 currently are made using recombinant DNA technology and fermentation. Recombinant biopolymers offer the ability to screen for desired properties utilizing the tremendous potential diversity of amino acid combinations, and fermentation allows for large-scale manufacturing with existing technology. Using recombinant DNA methods, one can precisely control the molecular weight, size, monodispersity, stereochemistry, and distribution of the biopolymer4 to create composite biopolymers simulating natural protein polymers5. Bio-based protein polymers also offer sustainable production and biodegradability. Using the twenty natural amino acids, one can create a protein polymer designed for a specific function. Representative examples of natural small peptide-based RSPP and their block copolymers (repeated amino acid sequences, using the one letter code, in parentheses), will include elastin (GVGVP, VPGG, APGVGV), silk fibroin (GAGAGS), byssus (GPGGG), flagelliform silk (GPGGx), dragline silk (GPGQQ), GPGGY, GGYGPGS), collagen (GAPGAPGSQGAPGLQ, GAPGTPGPQGLPGSP), and keratin (AKLKLAEAKLELA). The relative environmental stability of these families of structural proteins, in combination with their biocompatibility, unique mechanical properties, and leverage for genetic control of sequence, provide the foundation on which one may exploit naturally derived RSPPs for personal care. The presence of regularly repeated sequences also implies a propensity to adopt a regular structure and selfassembly. Such new generation RSPP biomaterials will by design, harness the power of surfaces and self-assembly to direct specific orientations desirable for skin, hair, and oral care. Surfaces of these newly designed materials are precisely defined at equilibrium and resistant to contamination. This is in contrast to present materials, which are amorphous or polycrystalline, drift in structure and composition with time, and suffer from uncontrolled contamination. The key elements in molecular self-assembly, a phenomenon ubiquitous in nature, are chemical and structural compatibility through non-covalent interactions. Silk-elastin protein polymer, relevant to this study, are simple, versatile, easy to produce, and self-assemble. Producing silk-elastin protein polymer requires an understanding of the protein structure, the ability to manipulate protein polymer structure through control of amino acid sequences, and an efficient method to synthesize sequences in a reproducible and precise fashion. Genencor has technology that allows us to produce and stably maintain repetitive genes and gene products in microorganisms by specifically designing the genes to avoid recombinational deletion. This process includes exploiting the degeneracy of the genetic code such that adjacent, identical oligopeptide blocks can be encoded by nonidentical DNA sequences. Additionally, by properly choosing and engineering microbial production strains, we can achieve high expression of silk-elastin protein polymer (SELP47K), an example of RSPP products from these genes. For example, we use microorganisms deficient in the deletion mechanisms of homologous recombination: DNA- modifying functions. Using precise sequence design and gene construction, we can stably maintain recombinant genes of over 5000 base pairs in E. coli. Thus, RSPPs are the result of knowledge-based polymer design that relies on the knowledge that repeated sequences adopt specific structural motifs that provide the basis for polymer formation. RSPPs are similar to a chemically polymerized block of copolymers but do not have any heterogeneity. They are unique, defined, monodispersed, and have molecular weights generally between 30 kD and 250 kD. For example, in silk-elastin protein polymer, a RSPP named SELP47K (Unit block structure: Figure 1), individual units are composed of silk fibroin (S = GAGAGS), and elastin (E = GVGVP). In this nomenclature, SELP47K (silk elastin like protein) consists of four silk repeat peptides, seven elastin repeat peptides, and one lysine modified elastin repeat peptide. Cross-linking functionality is provided to the SELP47K by substitution of one of the amino acids, valine, for a lysine in one individual unit of elastin. This modification also increases the water solubility of the polymer. This research entails the study of the properties relevant to personal care applications of silk-elastin protein polymer. Results indicate that silk-elastin protein polymer offers unique properties that are desirable for possible hair and skin care applications. In conclusion, repeat sequence protein polymers genetically designed based on the combined benefits of natural proteins have been described in this work to offer biotechnological solutions in personal care. In this work, we have illustrated that Genencor International has developed tailor-design protein polymers for applications in personal care using molecular biology, gene-expression methods, and modern fermentation engineering. Specifically, an example of silk-elastin protein polymer SELP47K is reported for its ease in manufacturability and key structural and mechanical properties relevant to personal care. Moreover, personal care application data reported demonstrates the potential of repeat sequence protein polymers as key active ingredients in upcoming future cosmetic products.

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FILE 'REGISTRY' ENTERED AT 19:51:55 ON 18 JAN 2005
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L2 248 S (GVGVP){3}/SQSP
L3 53 S L1&L2
L4 830 S GKGVP/SQSP
L5 5 S L3&L4
L6 4 S (GVGP){4}/SQSP
L7 4 L5 & L6
L8 4 L7 & L1

FILE 'HCAPLUS' ENTERED AT 19:54:58 ON 18 JAN 2005
L9 4 S L8

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT,
CAPLUS, CEN, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL,
EMBASE, ESBIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS,
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1 FILE DGENE
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L10 QUE SELP47K

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L11 15 S L10

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L12             7 DUP REM L11 (8 DUPLICATES REMOVED)

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EMBAL, EMBASE,
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KOSMET,
       LIFESCI, MEDICONF, MEDLINE, NAPRALERT, ...' ENTERED AT
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        245648 "K"
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           157 "K"
             0 SELP ADJ 47 ADJ K
                 ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'IMSPRODUCT'
             0 "SELP"
             0 "ADJ"
```

```
          35 "47"
           0 "ADJ"
        2861 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'IPA'
           2 SELP
           8 ADJ
        3165 47
           8 ADJ
        2276 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'JICST-EPLUS'
           5 SELP
          16 ADJ
       13724 47
          16 ADJ
       43949 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'KOSMET'
           0 SELP
           0 ADJ
         155 47
           0 ADJ
         320 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'LIFESCI'
           5 "SELP"
          81 "ADJ"
       14628 "47"
          81 "ADJ"
       84226 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'MEDICONF'
           0 SELP
           0 ADJ
          59 47
           0 ADJ
          43 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'MEDLINE'
          18 SELP
           2 SELPS
          19 SELP
              (SELP OR SELPS)
         297 ADJ
      125909 47
         297 ADJ
      247145 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'NAPRALERT'
```

```
           0 "SELP"
           5 "ADJ"
         177 "47"
           5 "ADJ"
        2198 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'NLDB'
           3 "SELP"
         194 "ADJ"
           1 "ADJS"
         195 "ADJ"
              ("ADJ" OR "ADJS")
       73332 "47"
         194 "ADJ"
           1 "ADJS"
         195 "ADJ"
              ("ADJ" OR "ADJS")
      160853 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'NUTRACEUT'
           0 SELP
           0 ADJ
          92 47
           0 ADJ
          70 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'PASCAL'
           9 SELP
           1 SELPS
           9 SELP
              (SELP OR SELPS)
         137 ADJ
       60560 47
         137 ADJ
      411194 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'PCTGEN'
           0 SELP
           0 ADJ
           1 47
           0 ADJ
           0 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'PHARMAML'
           0 SELP
           3 ADJ
        1037 47
           3 ADJ
         177 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'PHIC'
```

```
           0 "SELP"
           0 "ADJ"
           3 "47"
           0 "ADJ"
          17 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'PHIN'
           0 "SELP"
          26 "ADJ"
        4640 "47"
          26 "ADJ"
        5462 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'SCISEARCH'
          17 SELP
           2 SELPS
          18 SELP
              (SELP OR SELPS)
         361 ADJ
      101232 47
         361 ADJ
      582753 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'TOXCENTER'
          11 SELP
         259 ADJ
       56857 47
         259 ADJ
      146767 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'USPATFULL'
         177 SELP
           8 SELPS
         181 SELP
              (SELP OR SELPS)
        2660 ADJ
          13 ADJS
        2660 ADJ
              (ADJ OR ADJS)
      861809 47
        2660 ADJ
          13 ADJS
        2660 ADJ
              (ADJ OR ADJS)
      690048 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'USPAT2'
           9 SELP
           1 SELPS
           9 SELP
              (SELP OR SELPS)
         191 ADJ
```

```
           1 ADJS
         191 ADJ
              (ADJ OR ADJS)
       50250 47
         191 ADJ
           1 ADJS
         191 ADJ
              (ADJ OR ADJS)
       46732 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'AGRICOLA'
           2 SELP
          23 ADJ
        9383 47
          23 ADJ
       32359 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'ANABSTR'
           0 SELP
           0 ADJ
        3245 47
           0 ADJ
       10535 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'ANTE'
           0 SELP
           1 ADJ
         283 47
           1 ADJ
        2838 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'AQUALINE'
           0 SELP
           4 ADJ
        1420 47
           4 ADJ
       16002 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'AQUASCI'
           1 "SELP"
          18 "ADJ"
        4538 "47"
          18 "ADJ"
       22878 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'BIOBUSINESS'
           0 "SELP"
          23 "ADJ"
        2215 "47"
          23 "ADJ"
       11842 "K"
```

```
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'BIOCOMMERCE'
           0 SELP
           0 ADJ
         203 47
           0 ADJ
        2113 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'BIOENG'
           6 SELP
          11 ADJ
        3381 47
          11 ADJ
       13339 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'BIOTECHABS'
           6 SELP
           2 SELPS
           7 SELP
               (SELP OR SELPS)
           6 ADJ
        5374 47
           6 ADJ
        8074 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'BIOTECHDS'
           6 SELP
           2 SELPS
           7 SELP
               (SELP OR SELPS)
           6 ADJ
        5374 47
           6 ADJ
        8074 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'CABA'
           7 SELP
          73 ADJ
       56599 47
          73 ADJ
      110680 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'CEABA-VTB'
           0 SELP
           1 ADJ
        2021 47
           1 ADJ
       32740 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'CIN'
           0 "SELP"
           2 "ADJ"
        9203 "47"
           2 "ADJ"
       20607 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'CONFSCI'
           0 "SELP"
           6 "ADJ"
         173 "47"
           6 "ADJ"
        6966 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'CROPB'
           0 SELP
           0 ADJ
          45 47
           0 ADJ
         988 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'CROPU'
           0 SELP
           2 ADJ
        3056 47
           2 ADJ
        6808 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'FEDRIP'
           1 SELP
          47 ADJ
        1339 47
          47 ADJ
        7272 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'FOMAD'
           0 SELP
           0 ADJ
        3919 47
           0 ADJ
        4983 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'FOREGE'
           0 SELP
           0 ADJ
           3 47
           0 ADJ
        1860 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'FROSTI'
           1 SELP
           0 ADJ
         519 47
           0 ADJ
        3074 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'FSTA'
           0 SELP
          10 ADJ
        7420 47
          10 ADJ
       19075 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'GENBANK'
         604 "SELP"
         937 "ADJ"
      476285 "47"
         937 "ADJ"
     4092470 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'HEALSAFE'
           0 "SELP"
           9 "ADJ"
         773 "47"
           9 "ADJ"
        1614 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'IMSRESEARCH'
           0 "SELP"
           2 "ADJ"
         178 "47"
           2 "ADJ"
         443 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'NIOSHTIC'
           0 SELP
           1 ADJ
        2202 47
           1 ADJ
        1442 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'NTIS'
           5 SELP
           1 SELPS
           5 SELP
               (SELP OR SELPS)
          14 ADJ
        6590 47
          14 ADJ
       51773 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'OCEAN'
           0 "SELP"
           4 "ADJ"
        1511 "47"
           4 "ADJ"
        7147 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'PHAR'
          15 "SELP"
           5 "ADJ"
         411 "47"
           5 "ADJ"
         977 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'PROMT'
          12 "SELP"
        1123 "ADJ"
          10 "ADJS"
        1133 "ADJ"
               ("ADJ" OR "ADJS")
      190655 "47"
        1123 "ADJ"
          10 "ADJS"
        1133 "ADJ"
               ("ADJ" OR "ADJS")
      544529 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'PROUSDDR'
           0 "SELP"
          21 "ADJ"
        1034 "47"
          21 "ADJ"
        3014 "K"
           0 SELP ADJ 47 ADJ K
               ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'PS'
           0 SELP
           0 ADJ
           0 47
           0 ADJ
          43 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'RDISCLOSURE'
           0 SELP
           3 ADJ
         822 47
           3 ADJ
        1509 K
           0 SELP ADJ 47 ADJ K
               (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'SYNTHLINE'
           0 "SELP"
           0 "ADJ"
```

```
          26 "47"
           0 "ADJ"
         268 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'VETB'
           0 SELP
           0 ADJ
          38 47
           0 ADJ
         468 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'VETU'
           0 SELP
           4 ADJ
        2806 47
           4 ADJ
        2813 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'WATER'
           0 SELP
          15 ADJ
        2604 47
          15 ADJ
       10026 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'WPIDS'
           9 SELP
         603 ADJ
       65865 47
         603 ADJ
      121204 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'WPIFV'
           0 SELP
           2 ADJ
         194 47
           2 ADJ
         590 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'WPINDEX'
COMMAND INTERRUPTED

L13  QUE SELP ADJ 47 ADJ K
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> d rank
NO F-NUMBERS HAD GREATER THAN ZERO HITS
```

```
=> l13
FILE 'ADISCTI'
           1 SELP
          21 ADJ
       14511 47
          21 ADJ
        6261 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'ADISINSIGHT'
           0 "SELP"
           5 "ADJ"
         649 "47"
           5 "ADJ"
        1098 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'ADISNEWS'
           0 SELP
           0 ADJ
        2195 47
           0 ADJ
         515 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'BIOSIS'
          30 SELP
           3 SELPS
          31 SELP
              (SELP OR SELPS)
         318 ADJ
      113682 47
         318 ADJ
      250863 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'BIOTECHNO'
          10 SELP
          53 ADJ
       19168 47
          53 ADJ
       84757 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'CANCERLIT'
           2 SELP
           1 SELPS
           3 SELP
              (SELP OR SELPS)
         186 ADJ
       28729 47
         186 ADJ
       23574 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'CAPLUS'
          42 SELP
```

```
           5 SELPS
          43 SELP
              (SELP OR SELPS)
         216 ADJ
      209884 47
         216 ADJ
     1298057 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'CEN'
           0 "SELP"
           2 "ADJ"
         500 "47"
           2 "ADJ"
        3438 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
FILE 'DDFB'
           0 SELP
          20 ADJ
        1138 47
          20 ADJ
        9105 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'DDFU'
           4 SELP
          84 ADJ
           1 ADJS
          85 ADJ
              (ADJ OR ADJS)
        4332 47
          84 ADJ
           1 ADJS
          85 ADJ
              (ADJ OR ADJS)
       41964 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'DGENE'
          78 SELP
           3 ADJ
       14946 47
           3 ADJ
      123361 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'DISSABS'
           5 SELP
          91 ADJ
           1 ADJS
          91 ADJ
              (ADJ OR ADJS)
        8344 47
          91 ADJ
           1 ADJS
          91 ADJ
              (ADJ OR ADJS)
       46984 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'DRUGB'
           0 SELP
          20 ADJ
        1138 47
          20 ADJ
        9105 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'DRUGMONOG2'
           0 SELP
           1 ADJ
       11005 47
           1 ADJ
        1778 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'DRUGU'
           4 SELP
         127 ADJ
           1 ADJS
         127 ADJ
              (ADJ OR ADJS)
       45875 47
         127 ADJ
           1 ADJS
         127 ADJ
              (ADJ OR ADJS)
       64385 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'EMBAL'
           0 SELP
           4 ADJ
        1226 47
           4 ADJ
        1849 K
           0 SELP ADJ 47 ADJ K
              (SELP(W)ADJ(W)47(W)ADJ(W)K)
FILE 'EMBASE'
          16 "SELP"
           2 "SELPS"
          17 "SELP"
              ("SELP" OR "SELPS")
         322 "ADJ"
       77579 "47"
         322 "ADJ"
      245648 "K"
           0 SELP ADJ 47 ADJ K
              ("SELP"(W)"ADJ"(W)"47"(W)"ADJ"(W)"K")
<------User Break------>

           9 SELP
SEARCH ENDED BY USER
```

```
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> DIS HIST

     (FILE 'HOME' ENTERED AT 19:51:50 ON 18 JAN 2005)

     FILE 'REGISTRY' ENTERED AT 19:51:55 ON 18 JAN 2005
L1           169 S (GAGAGS){2}/SQSP
L2           248 S (GVGVP){3}/SQSP
L3            53 S L1&L2
L4           830 S GKGVP/SQSP
L5             5 S L3&L4
L6             4 S (GVGP){4}/SQSP
L7             4 L5 & L6
L8             4 L7 & L1

     FILE 'HCAPLUS' ENTERED AT 19:54:58 ON 18 JAN 2005
L9             4 S L8

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO,
CANCERLIT,
     CAPLUS, CEN, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2,
DRUGU, EMBAL,
     EMBASE, ESBIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-
EPLUS,
     KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, ..' ENTERED AT
19:55:54 ON
     18 JAN 2005
               SEA SELP47K
               ---------
               4   FILE CAPLUS
               1   FILE DGENE
               2   FILE IFIPAT
               1   FILE KOSMET
               1   FILE TOXCENTER
               4   FILE USPATFULL
               2   FILE WPIDS
               2   FILE WPINDEX
L10             QUE SELP47K
               ---------

     FILE 'CAPLUS, USPATFULL, IFIPAT, WPIDS, DGENE, KOSMET,
TOXCENTER' ENTERED
     AT 19:56:59 ON 18 JAN 2005
L11           15 S L10
L12            7 DUP REM L11 (8 DUPLICATES REMOVED)

     FILE 'STNGUIDE' ENTERED AT 19:59:04 ON 18 JAN 2005

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO,
CANCERLIT,
     CAPLUS, CEN, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2,
DRUGU, EMBAL,
     EMBASE, ESBIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-
EPLUS,
     KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, ..' ENTERED AT
20:00:59 ON
     18 JAN 2005
               SEA SELP ADJ 47 ADJ K
               ---------
               0*  FILE WPINDEX
L13             QUE SELP ADJ 47 ADJ K
               ---------
                SEA L13
               ---------
               0*  FILE ESBIOBASE

=>

---Logging off of STN---


=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS                            SINCE FILE
TOTAL
                                                    ENTRY
SESSION
FULL ESTIMATED COST                                 14.16
298.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE
TOTAL
                                                    ENTRY
SESSION
CA SUBSCRIBER PRICE                                  0.00      -
1.46

STN INTERNATIONAL LOGOFF AT 20:15:09 ON 18 JAN 2005


Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1653adk

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * *
* *
```

```
 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  SEP 01  New pricing for the Save Answers for SciFinder
Wizard within
                  STN Express with Discover!
 NEWS  4  OCT 28  KOREAPAT now available on STN
 NEWS  5  NOV 30  PHAR reloaded with additional data
 NEWS  6  DEC 01  LISA now available on STN
 NEWS  7  DEC 09  12 databases to be removed from STN on December 31,
2004
 NEWS  8  DEC 15  MEDLINE update schedule for December 2004
 NEWS  9  DEC 17  ELCOM reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  10 DEC 17  COMPUAB reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  11 DEC 17  SOLIDSTATE reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  12 DEC 17  CERAB reloaded; updating to resume; current-
awareness
                  alerts (SDIs) affected
 NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS  14 DEC 30  EPFULL: New patent full text database to be
available on STN
 NEWS  15 DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
 NEWS  16 JAN 03  No connect-hour charges in EPFULL during January
and
                  February 2005
 NEWS  17 JAN 11  CA/CAPLUS - Expanded patent coverage to include
Russia
                  (Federal Institute of Industrial Property)

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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STN
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  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * *
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FILE 'ENCOMPLIT2' ACCESS NOT AUTHORIZED
FILE 'ENCOMPPAT' ACCESS NOT AUTHORIZED
FILE 'ENCOMPPAT2' ACCESS NOT AUTHORIZED
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TOTAL
                                                    ENTRY
SESSION
FULL ESTIMATED COST                                  0.21
0.21

INDEX '1MOBILITY, 2MOBILITY, ABI-INFORM, ADISCTI, AEROSPACE,
AGRICOLA,
      ALUMINIUM, ANABSTR, ANTE, APOLLIT, AQUALINE, AQUASCI, AQUIRE,
BABS,
      BIBLIODATA, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS,
BIOTECHABS,
      BIOTECHDS, BIOTECHNO, BLLDB, CABA, CANCERLIT, ...'
ENTERED AT 08:28:31 ON 19 JAN 2005

140 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

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FILE 'WATER'
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L1    QUE SELP (W) 47 (W) K

=> d rank l1
'FULL' IS NOT VALID IN THE CURRENT FILE
This option is not valid in the current file.  Enter the command
without the option at the arrow prompt (=>).  Or, first enter the
file in which the saved item created.  Then enter the command and
option at an arrow prompt in the file.

=> d l1
DISPLAY L# IS NOT VALID IN STNINDEX
Answer set was created in a file.  Enter DISPLAY HISTORY to see where
the answer set was created.  Use the FIle command to change to that
file, then display the answer.

=> file caplus toxcenter uspatfull pctfull
COST IN U.S. DOLLARS                        SINCE FILE
TOTAL
                                              ENTRY
SESSION
FULL ESTIMATED COST                          3.54
3.75

FILE 'CAPLUS' ENTERED AT 08:32:11 ON 19 JAN 2005
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=> s l1
L2             5 L1

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3             4 DUP REM L2 (1 DUPLICATE REMOVED)

=> d l3 1-4 ed
NO VALID FORMATS ENTERED FOR FILE 'USPATFULL'
In a multifile environment, each file must have at least one valid
format requested.  Refer to file specific help messages or the
STNGUIDE file for information on formats available in individual
files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):cbib kwic

L3   ANSWER 1 OF 4  USPATFULL on STN
2004:232956 Use of repeat sequence protein polymers in personal care
    compositions.
    Kumar, Manoj, Fremont, CA, UNITED STATES
    Cuevas, William A., San Francisco, CA, UNITED STATES
    US 2004180027 A1 20040916
    APPLICATION: US 2004-800179  A1  20040312 (10)
    PRIORITY: US 2003-454077P  20030312 (60)
    DOCUMENT TYPE: Utility; APPLICATION.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DRWD   [0013] FIG. 2 illustrate AFM image of SELP 47-
       K film showing self assembly into nanofilaments.
DRWD   [0014] FIG. 3 illustrates SEM image of SELP 47-
       K film showing self assembly into nanofilaments.
DETD   . . .  on to the surface of a plasma-treated wafer
(hydrophilic
       surface) for examination. FIGS. 2 and 3 illustrate microscopy
pictures
       of SELP 47-K film showing self assembly
       into nanofilaments.

L3     ANSWER 2 OF 4     PCTFULL   COPYRIGHT 2005 Univentio on STN

DETD   Fig. 2 illustrate AFM image of SELP 47-K
       film showing self assembly into
       nanofilaments.

       Fig. 3 illustrates SEM image of SELP 47-K
       film showing self assembly into
       nanofilaments.
. . .
       spin-coated on to the surface of a plasma-treated wafer
(hydrophilic
       surface) for examination. Figs. 2 and 3 illustrate microscopy
pictures
       of SELP 47-K film
       showing self assembly into nanofilaments.

L3   ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
2004:74606   Document No. 140:309200  Thermal Analysis of Water in
     Silk-Elastin-like Hydrogels by Differential Scanning
Calorimetry.  Megeed,
     Zaki; Cappello, Joseph; Ghandehari, Hamidreza (Department of
     Pharmaceutical Sciences and Greenebaum Cancer Center, University
of
     Maryland, Baltimore, MD, 21201, USA).  Biomacromolecules, 5(3),
793-797
     (English) 2004.  CODEN: BOMAF6.  ISSN: 1525-7797.  Publisher:
American
     Chemical Society.
AB   DSC studies showed that up to 27 wt.% nonfreezable water exists
     in SELP-47 K (a copolymer with four silk-like blocks and 7
     elastin-like blocks in its primary repetitive sequence)
     hydrogels.
IT   7732-18-5, Water, properties   676292-96-9, SELP-47
     K
     RL: PRP (Properties)
        (thermal anal. of water in silk-elastin-like hydrogels by
DSC)

L3   ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN  DUPLICATE 1
2004:61498   Document No. 141:301229  In vitro and in vivo evaluation
of
     recombinant silk-elastin like hydrogels for cancer gene therapy.
Megeed,
     Zaki; Haider, Mohamed; Li, Daqing; O'Malley, Bert W.; Cappello,
Joseph;
     Ghandehari, Hamidreza (Department of Pharmaceutical Sciences,
University
     of Maryland School of Pharmacy, Baltimore, MD, 21201, USA).
Journal of
     Controlled Release, 94(2-3), 433-445 (English) 2004.  CODEN:
JCREEC.
     ISSN: 0168-3659.  Publisher: Elsevier.
IT   676292-96-9, SELP-47 K
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (recombinant silk-elastinlike hydrogels for cancer gene
therapy)


=> s silk (w) elastin (w) polymer
L4             13 SILK (W) ELASTIN (W) POLYMER

=> l4 not l3
L5             11 L4 NOT L3

=> d l5 1-11 cbib kwic

L5   ANSWER 1 OF 11  USPATFULL on STN
2004:298746 Repeat sequence protein polymer active agent congjugates,
methods
    and uses.
    Collier, Katherine D., Hillsborough, CA, UNITED STATES
    Cuevas, William A., San Francisco, CA, UNITED STATES
    Kumar, Manoj, Fremont, CA, UNITED STATES
    US 2004234609 A1 20041125
    APPLICATION: US 2004-845936  A1  20040514 (10)
    PRIORITY: US 2003-470464P  20030514 (60)
    DOCUMENT TYPE: Utility; APPLICATION.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
SUMM   . . .  of a repeat sequence protein polymer and at least one
active
       agent, wherein the repeat sequence protein polymer comprises a
       silk elastin polymer and the at least one
       active agent comprises a protein or peptide, and further
wherein the
       conjugation product comprises a. . .
DETD   . . .  by B or B' in the above formula. Preferred polymers
are
       combinations of silk units and elastin units to provide silk-
       elastin polymers having properties distinctive from
       polymers having only the same monomeric unit.
DETD   . . .  impart durability due to the silk repeating units and
to impart
       flexibility due to the elastin repeating units. Additionally,
the
       silk-elastin polymer may exhibit other
       desirable properties such as good clear film and hydrogel
formation,
       which the individual monomeric units may not exhibit. The silk
       -elastin polymer may be hydrophilic and water
       soluble. The silk-elastin polymer may also
       exhibit a high cloud temperature which is desirable in heat
sensitive
       applications. The silk-elastin polymer may
       have a high isoelectric point which may make the polymer more
       substantive to skin and hair. The silk-elastin
       polymer may further exhibit self assembly into fibers and
films
       which may be desirable in some applications.
DETD   [0079] A genetically engineered silk-elastin
       polymer (SELP47K) was isolated and purified from E. coli
       bacteria. The E. coli containing the SELP47K recombinant DNA
was
       obtained from. . . The E. coli may be prepared in
accordance with the
       methods described in U.S. Pat. Nos. 5,243,038 and 6,355,776.
The
       silk-elastin polymer SELP47K had a general
       structure of: head-
[(GAGAGS).sub.2(GVGVP).sub.3GKGVP(GVGP).sub.4(GAGAGS)
       .sub.2].sub.13-tail (SEQ ID NO. 19). The polymer contained 886
amino
```

acids, with 780 amino. . .
CLM What is claimed is:
26. The biomolecular conjugate as recited in claim 1 wherein the repeat
sequence protein polymer comprises a silk elastin
polymer and the at least one active agent comprises a protein or
peptide, and further wherein the conjugation product comprises a. .
.
27. The biomolecular conjugate as recited in claim 26 wherein the
silk elastin polymer comprises SELP47K (SEQ.
ID. NO. 19), and the protein or peptide comprises any protein or peptide
suitable for a desired. . .
. . . of a repeat sequence protein polymer and at least one active agent,
wherein the repeat sequence protein polymer comprises a silk
elastin polymer and the at least one active agent
comprises a protein or peptide, and further wherein the conjugation
product comprises a. . .
. . . of a repeat sequence protein polymer and at least one active agent,
wherein the repeat sequence protein polymer comprises a silk
elastin polymer and the active agent comprises a
protein or peptide, and further wherein the conjugation product
comprises a fusion protein.

L5 ANSWER 2 OF 11 USPATFULL on STN
2004:291832 Controlled release of active agents utilizing repeat sequence
protein polymers.
Kumar, Manoj, Fremont, CA, UNITED STATES
Mazeaud, Isabelle, Chatellerault, FRANCE
Christiano, Steven Patrick, Midland, MI, UNITED STATES
US 2004228913 A1 20041118
APPLICATION: US 2004-845775 A1 20040514 (10)
PRIORITY: US 2003-470465P 20030514 (60)
DOCUMENT TYPE: Utility; APPLICATION.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD . . . impart durability due to the silk repeating units and to impart
flexibility due to the elastin repeating units. Additionally, the
silk-elastin polymer may exhibit other
desirable properties such as good clear film and hydrogel formation,
which the individual monomeric units may not. . .
DETD [0078] In accordance with an embodiment of the present invention a
silk-elastin polymer SELP47K (SEQ ID NO. 19)
may be used as the repeat sequence protein polymer of the present
invention. The SELP47K. . .

L5 ANSWER 3 OF 11 USPATFULL on STN
2004:166481 Slide and lock stent and method of manufacture from a single piece
shape.
Padilla, Orlando, Laguna Niguel, CA, UNITED STATES
Esser, Keith, San Diego, CA, UNITED STATES
Zeltinger, Joan, Encinitas, CA, UNITED STATES
US 2004127971 A1 20040701
APPLICATION: US 2003-655338 A1 20030904 (10)
PRIORITY: US 2002-408409P 20020904 (60)
DOCUMENT TYPE: Utility; APPLICATION.
SUMM . . . of polyarylates (L-tyrosine-derived), free acid polyarylates,
polycarbonates (L-tyrosine-derived), poly(ester-amides),
lysine-containing poly(ester-amides), polyhydroxyalkanoates,
poly(propylene fumarate-co-ethylene glycol) copolymer, polyanhydride
esters, polyanhydrides, polyorthoesters, silk-elastin
polymers, amino acid-containing polymers or corrodible calcium
phosphate and magnesium alloys. In another preferred variation, the
material may further comprise a. . .
DETD . . . PDTEC), poly(ester-amides), poly(propylene fumarate-co-ethylene
glycol) copolymer (i.e., fumarate anhydrides), polyanhydride esters
(mechanically stronger) and polyanhydrides (mechanically weaker),
polyorthoesters, ProLastin or silk-elastin
polymers (SELP), calcium phosphate (BIOGLASS), magnesium alloys,
and a composition of PLA, PCL, PGA ester commercial polymers used
singularly or in. . .
CLM What is claimed is:
. . . of polyarylates (L-tyrosine-derived), free acid polyarylates,
polycarbonates (L-tyrosine-derived), poly(ester-amides),
lysine-containing poly(ester-amides), polyhydroxyalkanoates,
poly(propylene fumarate-co-ethylene glycol) copolymer, polyanhydride
esters, polyanhydrides, polyorthoesters, silk-elastin
polymers, amino acid-containing polymers and corrodible calcium
phosphate and magnesium alloys.

L5 ANSWER 4 OF 11 USPATFULL on STN
2003:283625 Expandable stent with sliding and locking radial elements.
Steinke, Thomas A., San Diego, CA, UNITED STATES
Koenig, Donald H., San Diego, CA, UNITED STATES
Zeltinger, Joan, Encinitas, CA, UNITED STATES
US 2003199969 A1 20031023
APPLICATION: US 2003-452954 A1 20030603 (10)
DOCUMENT TYPE: Utility; APPLICATION.
SUMM . . . group consisting of polyarylates (L-tyrosine-derived), free
acid polyarylates, polycarbonates (L-tyrosine-derived),
poly(ester-amides), poly(propylene fumarate-co-ethylene glycol)
copolymer, polyanhydride esters, polyanhydrides, polyorthoesters, and
silk-elastin polymers, calcium phosphate,
magnesium alloys or blends thereof.
DETD . . . (L-tyrosine-derived), poly(ester-amides), poly(propylene
fumarate-co-ethylene glycol) copolymer (i.e., fumarate anhydrides),
polyanhydride esters (mechanically stronger) and polyanhydrides
(mechanically weaker), polyorthoesters, ProLastin or silk-elastin
polymers (SELP), calcium phosphate (BIOGLASS),
magnesium alloys, and a composition of PLA, PCL, PGA ester commercial
polymers used sigularly or in. . .
CLM What is claimed is:
. . . the group consisting of polyarylates (L-tyrosine-derived), free acid
polyarylates, polycarbonates (L-tyrosine-derived), poly(ester-amides),
poly(propylene fumarate-co-ethylene glycol) copolymer, polyanhydride
esters, polyanhydrides, polyorthoesters, silk-elastin
polymers, calcium phosphate and magnesium alloys.

L5 ANSWER 5 OF 11 USPATFULL on STN
2002:192451 Protective coating for stent.
Steinke, Tom, San Diego, CA, UNITED STATES
US 2002103526 A1 20020801
APPLICATION: US 2001-17341 A1 20011213 (10)
PRIORITY: US 2000-255995P 20001215 (60)
DOCUMENT TYPE: Utility; APPLICATION.
DETD . . . group consisting of polyarylates (L-tyrosine-derived), free
acid polyarylates, polycarbonates (L-tyrosine-derived),
polyester-amides), polypropylene fumarate-co-ethylene glycol) copolymer,
polyanhydride esters, polyanhydrides, polyorthoesters, and silk
-elastin polymers, calcium phosphate, magnesium
alloys or blends thereof.
DETD . . . (e.g., NOOC or NOOC-G), collagen, fibrin or fibrinogen,
hyaluronic acid, hydroxy acids (i.e. lactide, glycolide,
hydroxybutyrate), lactone-based polymers, or even silk-elastin polymers.

L5 ANSWER 6 OF 11 USPATFULL on STN
2001:212652 Expandable stent with sliding and locking radial elements.
Steinke, Thomas A., San Diego, CA, United States
Koenig, Donald H., San Diego, CA, United States
US 2001044651 A1 20011122
APPLICATION: US 2000-739552 A1 20001214 (9)
DOCUMENT TYPE: Utility; APPLICATION.
SUMM . . . group consisting of polyarylates (L-tyrosine-derived), free
acid polyarylates, polycarbonates (L-tyrosine-derived),
poly(ester-amides), poly(propylene fumarate-co-ethylene glycol)
copolymer, polyanhydride esters, polyanhydrides, polyorthoesters, and
silk-elastin polymers, calcium phosphate,
magnesium alloys or blends thereof.
DETD . . . (L-tyrosine-derived), poly(ester-amides), poly(propylene
fumarate-co-ethylene glycol) copolymer (i.e., fumarate anhydrides),
polyanhydride esters (mechanically stronger) and polyanhydrides
(mechanically weaker), polyorthoesters, ProLastin or silk-elastin
polymers (SELP), calcium phosphate (BIOGLASS),
magnesium alloys, and a composition of PLA, PCL, PGA ester commercial
polymers used sigularly or in. . .
CLM What is claimed is:
. . . the group consisting of polyarylates (L-tyrosine-derived), free acid
polyarylates, polycarbonates (L-tyrosine-derived), poly(ester-amides),
poly(propylene fumarate-co-ethylene glycol) copolymer, polyanhydride
esters, polyanhydrides, polyorthoesters, silk-elastin
polymers, calcium phosphate and magnesium alloys.

L5 ANSWER 7 OF 11 PCTFULL COPYRIGHT 2005 Univentio on STN
DETD . . . to impart durability due to the silk repeating units and to
impart flexibility due to the elastin repeating units. Additionally, the
silk-elastin polymer
may exhibit other desirable properties such as good clear film and
hydrogel formation,
which the individual monomeric units may not exhibit.. The. . .

In accordance with an embodiment of the present invention a silk
-elastin polymer
SELP47K (SEQ ID NO. 19) may be used as the repeat sequence protein
polymer of the
present invention. The SELP47K is a. . .

L5 ANSWER 8 OF 11 PCTFULL COPYRIGHT 2005 Univentio on STN

DETD . . . conjugation product of a repeat
sequence protein polymer and at least one active agent,
wherein the
repeat sequence
protein polymer comprises a silk elastin
polymer and the at least one active agent
comprises a protein or peptide, and further wherein the
conjugation
product comprises a
fusion protein,. . .
. . .
sequences represented by B or B' in the
above formula. Preferred polymers are combinations of silk
units and
elastin units to
provide silk-elastin polymers having
properties distinctive from polymers having only
the same monomeric unit.
. . .
to impart durability due to the silk repeating units and
to impart flexibility due to the elastin repeating units.
Additionally,
the silk-elastin
polymer may exhibit other desirable properties such as good
clear film and hydrogel
formation, which the individual monomeric units may not
exhibit. The
silk-elastin
polymer may be hydrophilic and water soluble. The silk
-elastin polymer may also
exhibit a high cloud temperature which is desirable in heat
sensitive
applications. The
silk-elastin polymer may have a high
isoelectric point which may make the polymer
more substantive to skin and hair. The silk-elastin
polymer may ftirther exhibit self
assembly into fibers and films which may be desirable in some
applications.

EXAMPLE I
A genetically engineered silk-elastin
polymer (SELP47K) was isolated and
purified from E. coli bacteria. The E. coli containing the
SELP47K
recombinant DNA
was obtained from Protein Polymer. . .

5,243,038 and 6,355,776. The silk-elastin
polymer SELP47K had a general structure of-
head-[(GAGAGS)2(GVGVP)3GKGVP(GVGP)4(GAGAGS)2113-taiI (SEQ ID
NO. 19).

CLMEN 26 The biomolecular conjugate as recited in claim 1 wherein
the repeat
sequence
protein polymer comprises a silk elastin
polymer and the at least one active agent
comprises a protein or peptide, and further wherein the
conjugation
product
comprises a fusion protein.

27 The biomolecular conjugate as recited in claim 26 wherein
the
silk elastin
polymer comprises SELP47K (SEQ. ID. NO. 19), and the protein
or peptide
comprises any protein or peptide suitable for a desired
application. .
.
. . .
product of a repeat sequence protein polymer and at least one
active
agent, wherein the repeat sequence protein polymer comprises a
silk elastin
polymer and the at least one active agent comprises a
protein
or peptide, and
farther wherein the conjugation product comprises a fusion. .
.
. . .
conjugation product
of a repeat sequence protein polymer and at least one active
agent,
wherein the
repeat sequence protein polymer comprises a silk
elastin polymer and the active
agent comprises a protein or peptide, and further wherein the
conjugation product
comprises a fusion protein.

L5 ANSWER 9 OF 11 PCTFULL COPYRIGHT 2005 Univentio on STN

DETD . . . the group consisting of
polyarylates (L-tyrosine-derived), free acid polyarylates,
polycarbonates (L-tyrosine-
derived), poly(ester-amides), lysine-containing poly(ester-
amides),
polyhydroxyalkanoates,
poly(propylene fumarate-co-ethylene glycol) copolymer,
polyanhydride
esters,
polyanhydrides, polyorthoesters, silk-elastin
polymers, amino acid-containing polymers or
corrodible calcium phosphate and magnesium alloys. In another
preferred
variation, the
material may ffirther comprise a biologically responsive. .
.
. . .
including PDPEC or PDTEQ, poly(ester-amides), poly(propylene
fumarate-co-ethylene glycol) copolymer (i.e., funiarate
anhydrides),
polyanhydride esters
(mechanically stronger) and polyanhydrides (mechanically
weaker),
polyorthoesters,
ProLastin or silk-elastin polymers (SELP),
calcium phosphate (BIOGLASS), magnesium
alloys, and a composition of PLA, PCL, PGA ester commercial
polymers
used singularly or
in any mixture.

CLMEN. . . group consisting of polyarylates (L-tyrosine-derived),
free acid
polyarylates,
polycarbonates (L-tyrosine-derived), poly(ester-amides),
lysine-containing poly(ester-
amides), polyhydroxyallcanoates, poly(propylene fumarate-co-
ethylelie
glycol) copolymer,
polyanhydride esters, polyanhydrides, polyorthoesters, silk-
elastin polymers, amino acid-
containing polymers and corrodible calcium phosphate and
magnesium
alloys.

L5 ANSWER 10 OF 11 PCTFULL COPYRIGHT 2005 Univentio on STN

DETD . . . selected from the group
consisting of polyarylates (L-tyrosine-derived), free acid
polyarylates,
polycarbonates (L-tyrosine-derived),
polyester-amides), polypropylene fumarate-co-ethylene glycol)
copolymer,
polyanhydride esters, polyanhydrides,
polyorthoesters, and silk-elastin polymers
, calcium phosphate, magnesium alloys or blends thereof.
. . .
polymers, chitosan (e.g., NOOC or NOOC-G),
collagen, fibrin or fibrinogen, hyaluronic acid, hydroxy acids
(i.e.
lactide, glycolide, hydroxybutyrate), lactone-based
polymers, or even silk-elastin polymers.

L5 ANSWER 11 OF 11 PCTFULL COPYRIGHT 2005 Univentio on STN

DETD . . . selected from the group
consisting of polyarylates (L-tyrosine-derived), free acid
polyarylates,
polycarbonates (L-tyrosine-derived),
poly(ester-amides), poly(propylene fumarate-co-othylene
glycol)
copolymer, polyanhydride esters, polyanhydrides,
polyorthoesters, and silk-elastin polymers
,,calcium phosphate, magnesium alloys or blends thereof.
. . .
polycarbonates (L-tyrosine-derived), poly(ester-amides),
poly(propylene
fumarate-co-ethylene glycol) copolymer (i.e., fumarate
anhydrides),
polyanhydride esters (mechanically stronger) and
polyanhydrides (mechanically weaker) I polyorthoesters,
ProLastin or
silk-elastin polymers (SELP), calcium
phosphate
(BIOGLASS), magnesium alloys, and a composition of PLA, PCL,
PGA ester
commercial polymers used sigularly or in
any mixture.

CLMEN. . . is
selected from the group consisting of polyarylates (L-
tyrosine-derived),
free acid polyarylates,
polycarbonates (L-tyrosine-derived), poly(ester-amides),
poly(propylene
iumarate-co-ethylone glycol)
copolymer, polyanhydride esters, polyanhydrides,
polyorthoesters,
silk-elastin polymers, calcium phosphate
and magnesium alloys.

=> file reg
COST IN U.S. DOLLARS SINCE FILE
TOTAL
ENTRY
SESSION
FULL ESTIMATED COST 47.31
51.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE
TOTAL
ENTRY
SESSION
CA SUBSCRIBER PRICE -0.73 -
0.73

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DICTIONARY FILE UPDATES: 17 JAN 2005 HIGHEST RN 815574-28-8

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http://www.cas.org/ONLINE/DBSS/registryss.html

=> s (gagags)+(gvgvp)+(gkgvp)+(gvgp)+(gagags)+/sqsp
L6 4 (GAGAGS)+(GVGVP)+(GKGVP)+(GVGP)+(GAGAGS)+/SQSP

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE
TOTAL
ENTRY
SESSION
FULL ESTIMATED COST 28.36
79.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE
TOTAL
ENTRY
SESSION
CA SUBSCRIBER PRICE 0.00 -
0.73

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FILE COVERS 1907 - 19 Jan 2005 VOL 142 ISS 4
FILE LAST UPDATED: 18 Jan 2005 (20050118/ED)

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=> s l6
L7 4 L6

=> d l7 1-4 ed

L7 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
ED Entered STN: 26 Nov 2004

L7 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
ED Entered STN: 19 Nov 2004

L7 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
ED Entered STN: 17 Sep 2004

L7 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
ED Entered STN: 07 Dec 2003

=> d l7 1-4 cbib kwic

L7 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
2004:1019529 Document No. 142:2503 Conjugates of repeat sequence protein
polymers with bioactive agents. Collier, Katherine D.; Cuevas, William
A.; Kumar, Manoj (USA). U.S. Pat. Appl. Publ. US 2004234609 A1 20041125,
54 pp. (English). CODEN: USXXCO. APPLICATION: US 2004-845936 20040514.
PRIORITY: US 2003-PV470464 20030514.
IT 798312-18-2DP, conjugates 798313-20-9P 798313-21-0P
798313-22-1P 798313-23-2P 798313-24-3P 798313-25-4P
RL: COS (Cosmetic use); NUU (Other use, unclassified); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(amino acid sequence; conjugates of repeat sequence protein polymers
with bioactive agents)

L7 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
2004:999537 Document No. 141:427734 Controlled release of active agents from
personal care product compositions utilizing repeat sequence protein
polymers. Kumar, Manoj; Mazeaud, Isabelle; Christiano, Steven Patrick
(USA). U.S. Pat. Appl. Publ. US 2004228913 A1 20041118, 34 pp.
(English). CODEN: USXXCO. APPLICATION: US 2004-845775 20040514.
PRIORITY: US 2003-PV470465 20030514.
IT 794244-43-2P
RL: BPN (Biosynthetic preparation); COS (Cosmetic use); PRP (Properties);
THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(amino acid sequence; controlled release of active agents from personal
care product compns. utilizing repeat sequence protein polymers)

L7 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
2004:759607 Document No. 141:282398 Use of repeat sequence protein polymers
in personal care compositions. Kumar, Manoj; Cuevas, William A. (USA).
U.S. Pat. Appl. Publ. US 2004180027 A1 20040916, 50 pp. (English).
CODEN: USXXCO. APPLICATION: US 2004-800179 20040312. PRIORITY: US
2003-PV454077 20030312.
IT 757271-63-9P
RL: BPN (Biosynthetic preparation); COS (Cosmetic use); PRP (Properties);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; use of repeat sequence protein polymers in
personal care compns.)

L7 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
2003:950911 Document No. 140:14537 Synthesis of inorganic structures using
templation and catalysis by self assembled repeat protein polymers.
Kumar, Manoj (Dow Corning Corporation, USA; Genencor International, Inc.).
PCT Int. Appl. WO 2003099465 A1 20031204, 27 pp. DESIGNATED STATES: W:
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG,
SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW;
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,
GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English).
CODEN: PIXXD2. APPLICATION: WO 2003-US15757 20030520. PRIORITY: US
2002-PV381913 20020520.
IT 78-10-4, TEOS 780-69-8, Phenyltriethoxysilane 919-30-2,
3-Aminopropyltriethoxysilane 7439-89-6, Iron, analysis 7440-21-3,
Silicon, analysis 7440-22-4, Silver, analysis 7440-25-7, Tantalum,
analysis 7440-32-6, Titanium, analysis 7440-43-9, Cadmium, analysis
7440-48-4, Cobalt, analysis 7440-50-8, Copper, analysis 7440-65-5,
Yttrium, analysis 7440-67-7, Zirconium, analysis 7440-70-2, Calcium,
analysis 7631-86-9, Silica, analysis 7761-88-8, Silver nitrate,
analysis 10043-52-4, Calcium chloride, analysis 34364-20-0, Yttrium
ethoxide 61121-40-2 91037-65-9 101992-06-7 189135-42-0
203786-88-3 255838-52-9 627882-92-2 627882-93-3 627882-94-4
627882-95-5 629704-46-7 629704-47-8 629704-48-9
629704-49-0 629704-50-3 629704-51-4 629704-52-5
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(synthesis of inorg. structures using templation and catalysis by self
assembled repeat protein polymers)

=> DIS HIST

(FILE 'HOME' ENTERED AT 08:28:25 ON 19 JAN 2005)

INDEX '1MOBILITY, 2MOBILITY, ABI-INFORM, ADISCTI, AEROSPACE, AGRICOLA,
ALUMINIUM, ANABSTR, ANTE, APOLLIT, AQUALINE, AQUASCI, AQUIRE, BABS,
BIBLIODATA, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS,
BIOTECHDS, BIOTECHNO, BLLDB, CABA, CANCERLIT, ...' ENTERED AT 08:28:31 ON
19 JAN 2005

SEA SELP (W) 47 (W) K
---
2 FILE CAPLUS
1 FILE PCTFULL
1 FILE TOXCENTER
1 FILE USPATFULL
L1 QUE SELP (W) 47 (W) K

FILE 'CAPLUS, TOXCENTER, USPATFULL, PCTFULL' ENTERED AT 08:32:11 ON 19
JAN 2005
L2 5 S L1
L3 4 DUP REM L2 (1 DUPLICATE REMOVED)
L4 13 S SILK (W) ELASTIN (W) POLYMER
L5 11 L4 NOT L3

FILE 'REGISTRY' ENTERED AT 08:36:51 ON 19 JAN 2005
L6 4 S (GAGAGS)+(GVGVP)+(GKGVP)+(GVGP)+(GAGAGS)+/SQSP

FILE 'HCAPLUS' ENTERED AT 08:38:14 ON 19 JAN 2005
L7 4 S L6

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.43	96.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	0.73

STN INTERNATIONAL LOGOFF AT 08:39:56 ON 19 JAN 2005